

SAVANNAH RIVER SITE

E. Ray Conatser

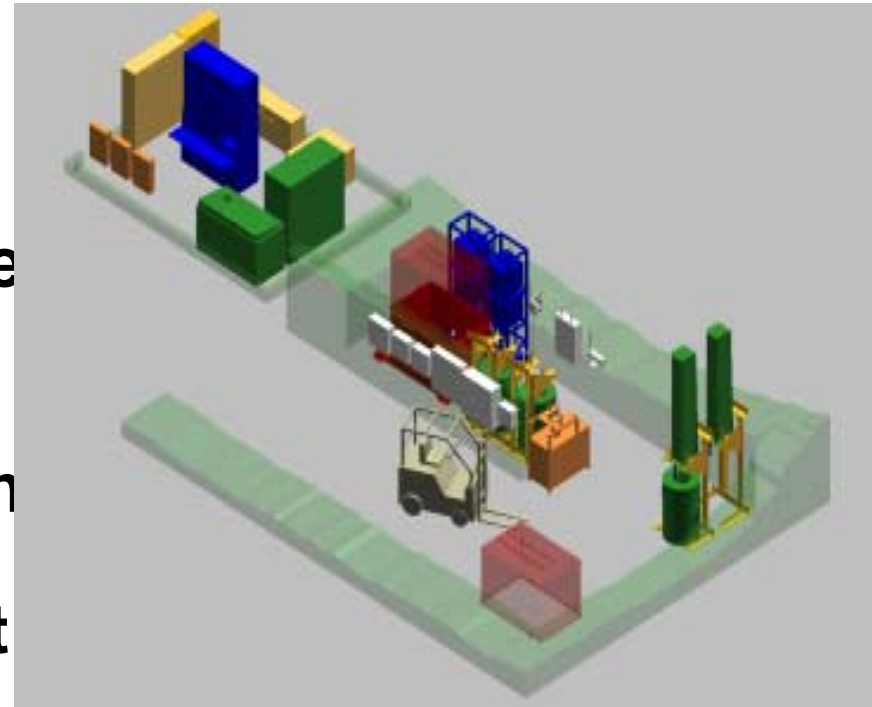
**WESTINGHOUSE SAVANNAH RIVER
COMPANY**

Nuclear Materials Management Division

6/26 - 27/01

SRS SNF PROGRAM PRIORITIES

- ☐ **94-1 / 2000-1 Stabilization**
- ☐ **FRR / DRR SNF Acceptance Program**
- ☐ **LEF process demonstration**
- ☐ **Facilities / basin consolidation**
- ☐ **Organizational restructuring**
- ☐ **Repository waste form certification data (AI-SNF)**



SRS 'FRR RECEIPTS' PROGRAM

- ✓ **85 FRR casks / 3243 assemblies received to date**
- ✓ **Completed HEU de-inventories in Argentina, Chile, Austria in**
- ✓ **Completed extensive L-basis receipt enhancements (LWT & TN-7/2 casks)**
- ✓ **French (OSIRIS) to participate (~600 assm.)**
- ✓ **Canada participation pending start after FY03**



FACILITY OPERATIONS

- ❑ L-Basin is primary FRR/DRR receipt & storage facility
 - Additional rack installation ongoing
- ❑ RBOF de-inventory by FY06
 - Currently @ ~30% capacity
 - ~720 positions remain to be moved
 - Significant engineering effort required
- ❑ K-Basin shipments to H-Canyon continue through 2003

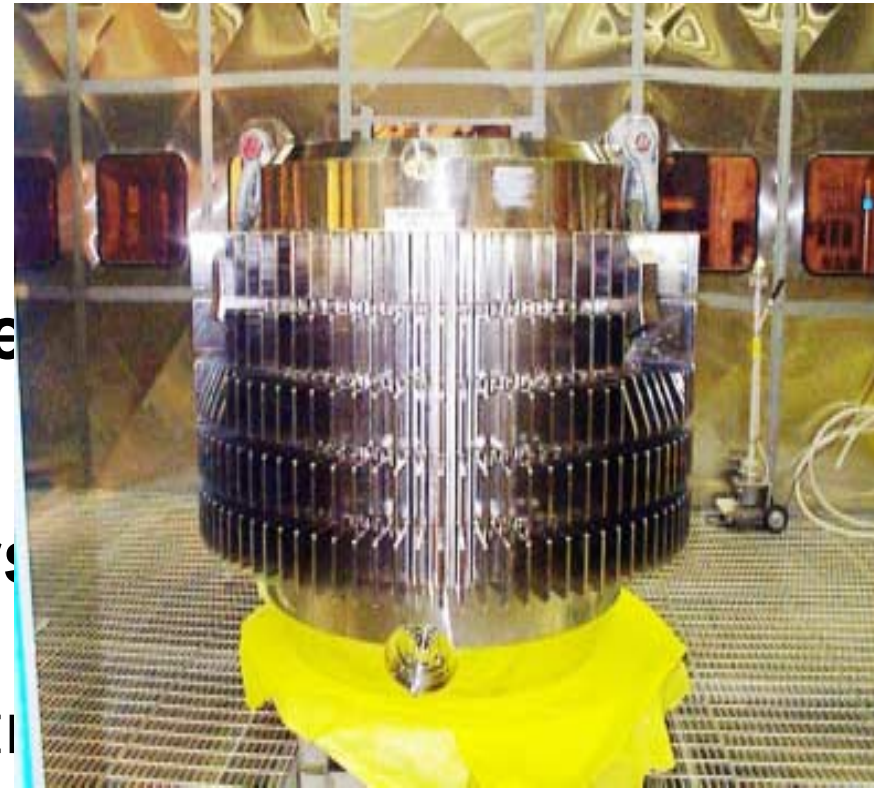


ISSUES BEING ADDRESSED

- ❑ **Budget uncertainty impacts**
- ❑ **Melt & Dilute demonstration / LEF Project**
- ❑ **Timely certification of FRR transportation equipment**
 - Timely initiation of pre-shipment preparations
 - Impact of European transportation incidents
 - ‘Last minute’ scheduling of FRR returns in FY05-’09

ISSUES BEING ADDRESSED

- ❑ **Surface contamination on transportation casks**
- ❑ **SNF Inventory management**
- ❑ **Timely involvement of Domestic Stakeholders**
 - Univ. of Missouri / TRIGA
 - Cross-country, WIPP, SRS - INEL
- ❑ **Preparations for INEEL / SRS SNF swap**
 - Timely involvement of critical engineering resources



INEEL / SRS SNF SWAP

- ❑ **SRS ‘scoping study’; critical issues, resource requirements, schedule - conclusions:**
 - 1.) 2010 start of transfer is achievable
 - 2.) Accelerated start prior to 2008 is resource prohibitive
 - 3.) Significant engineering resources required to support 2010 start
 - » Conceptual requirements for repackaging & transportation system
 - 4.) Early involvement of commercial transportation contractors appears prudent



NSNFP 'OPPORTUNITIES'

- ❑ **Visibility of EM - RW Repository licensing activities**
 - Critical interface for proactive EM communications with RW
 - Visibility for timely development of: 1.) EM input into Repository licensing, and: 2.) EM transportation system
- ❑ **Disposition of small quantity / orphan materials**
- ❑ **Standardization of Safeguards & Security requirements for HEU**

SUPPLEMENTAL INFORMATION

SRS SNF MANAGEMENT ACTIVITY

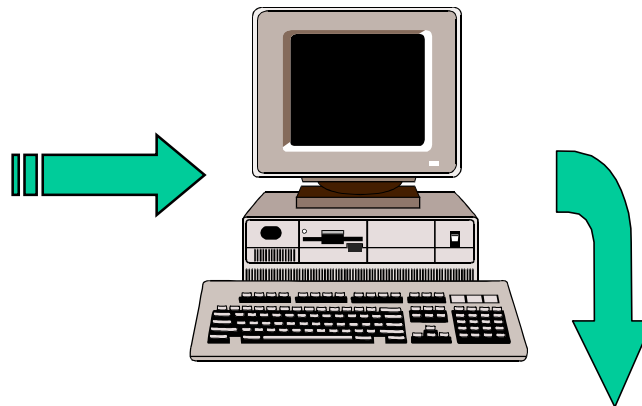
CASK PROCESSED	FY00	FY01 FCST.	FY01 YTD	FY02 FCST.
RBOF to Canyons *	10	11	8	12
K & L to Canyons **	10	11	8	27
FRR casks	23	24	18	18
DRR casks	15	4	0	31
RBOF to L-basin	17	26	17	17
TOTALS	75	76	51	105
* SFO shipments ** SRS irradiated fuels (Mk-16 & 22s)				

SAVANNAH RIVER SITE - SNF Program 'LESSONS LEARNED'

SRS SNF Scheduling Model - 'OFFSHIP'

Input Parameters:

- Research Reactor
- Developed / Developing Country
- Fuel inventories & availability schedule
- Qualified / Preferred casks
- Enrichment (HEU / LEU)
- Loading & Transit times
- Continental region, seaport
- Cask authorized contents
- Shipment rules



Output Results:

Feasible Receipt and Unloading Schedule

<u>Received</u>	<u>Reactor</u>	<u>Country</u>	<u>Cask</u>	<u>Assy Type</u>	<u># of Assy's</u>
1/1/00	RJ-2	USA	GE-2000	MTR-HEU	21